



Special Issue of Journal of Manufacturing Processes on Advancements in Manufacturing Processes



During the refereeing process of papers submitted to NAMRC 44, twelve high-quality papers have been fast-tracked to a special issue of Journal of Manufacturing Processes titled “Advancements in Manufacturing Processes”. The twelve papers are therefore excluded from the Proceedings of NAMRC 44 in Procedia Manufacturing. The authors, titles and hyperlinks of these twelve fast-tracked papers are provided below for quick reference.

1. Huachao Mao, Chi Zhou and Yong Chen, “LISA: Linear Immersed Sweeping Accumulation”,
[doi:10.1016/j.jmapro.2016.06.021](https://doi.org/10.1016/j.jmapro.2016.06.021)
2. Sarah Wolff, Taekyung Lee, Eric Faierson, Kornel Ehmann and Jian Cao, “Anisotropic Properties of Directed Energy Deposition (DED)-Processed Ti-6Al-4V”,
[doi:10.1016/j.jmapro.2016.06.020](https://doi.org/10.1016/j.jmapro.2016.06.020)
3. Pavan Pasumarthi, Saheem Absar and Hongseok Choi, “The Effect of Geometrical Parameters on the Characteristics of Ultrasonic Processing for Metal Matrix Nanocomposites (MMNCs)”,
[doi:10.1016/j.jmapro.2016.06.019](https://doi.org/10.1016/j.jmapro.2016.06.019)
4. Dong Sung Kim and Bruce L. Tai, “Hydrostatic Support-Free Fabrication of Three-Dimensional Soft Structures”,
[doi:10.1016/j.jmapro.2016.06.018](https://doi.org/10.1016/j.jmapro.2016.06.018)
5. Vinh Nguyen, Shreyes Melkote, Amar Deshamudre, Maneesh Khanna and Dan Walker, “PVDF Sensor Based Monitoring of Single-Point Cutting”,
[doi:10.1016/j.jmapro.2016.06.011](https://doi.org/10.1016/j.jmapro.2016.06.011)

6. Ali Nassiri and Brad Kinsey, “Numerical Studies on High-Velocity Impact Welding: Smoothed Particle Hydrodynamics (SPH) and Arbitrary Lagrangian-Eulerian (ALE)”,
[doi:10.1016/j.jmapro.2016.06.017](https://doi.org/10.1016/j.jmapro.2016.06.017)
7. Jorge Correa, Joseph Toombs, Nicholas Toombs and Placid Ferreira, “Laminated Micro-Machine: Design and Fabrication of a Flexure-based Delta Robot”,
[doi:10.1016/j.jmapro.2016.06.016](https://doi.org/10.1016/j.jmapro.2016.06.016)
8. Farbod Akhavan Niaki, Martin Michel and Laine Mears, “State of Health Monitoring in Machining: Extended Kalman Filter for Tool Wear Assessment in Turning of IN718 Hard-to-Machine Alloy”,
[doi:10.1016/j.jmapro.2016.06.015](https://doi.org/10.1016/j.jmapro.2016.06.015)
9. Hitomi Yamaguchi, Patrick Hendershot, Radu Pavel and Jonathan Iverso, “Polishing of Uncoated Cutting Tool Surfaces for Extended Tool Life in Turning of Ti-6Al-4V”,
[doi:10.1016/j.jmapro.2016.06.014](https://doi.org/10.1016/j.jmapro.2016.06.014)
10. Xiangcheng Kong, Paul Cohen and Jingyan Dong, “Predictive Modeling of Feature Dimension for Tip-based Nano Machining Process”,
[doi:10.1016/j.jmapro.2016.06.013](https://doi.org/10.1016/j.jmapro.2016.06.013)
11. Santanu Paul, Ramesh Singh and Wenyi Yan, “Thermal Model for Additive Restoration of Mold Steels Using Crucible Steel”,
[doi:10.1016/j.jmapro.2016.06.012](https://doi.org/10.1016/j.jmapro.2016.06.012)
12. Zimo Wang, Vivekananda Kovvuri, Ana Carla Araujo, Marcio Bacci, Wayne N.P. Hung and Satish T.S. Bukkapatnam, “Built-up-Edge Effects on Surface Deterioration in Micromilling Processes”,
[doi:10.1016/j.jmapro.2016.03.016](https://doi.org/10.1016/j.jmapro.2016.03.016)

In summary, the twelve papers in this Special Issue of Journal of Manufacturing Processes allow faster dissemination of state-of-the-art research results highlighted at the 44th North American Manufacturing Research Conference (NAMRC 44) in Blacksburg, VA, USA.